

Amendments to the Specification:

Please amend the specification as follows:

Please replace 3rd paragraph at page 22, lines 18-29, with the following rewritten paragraph:

Fig. 14 represents a flow chart illustrating the measurement and data treatment in a master instrument. The method is started in step 100 and ended in step 118 as shown in Figure 14. As stated above, data representing two X-ray images of (Figures 5, 6) of each container (Figure 4), comprising a batch of food or feed e.g. meat, are obtained (106, 108 in Figure 14). The signals at the pixels are I_{low} and I_{high} at low and high X-ray energies, respectively, (110, 112 in figure 14). Furthermore, the so-called "dark signals" (i.e. the signal from the detectors when no radiation reaches them), $I_{dark} (low)$ and $I_{dark} (high)$, and the "air signals" (i.e. the signal from the detectors when no sample is present in the measure region), $I_{air}(low)$ and $I_{air}(high)$, are collected for each pixel at both X-ray energies (102 in Figure 14). Preferably these data are collected repetitively in the intervals between the passage/passing of meat containers, i.e., the dark signals and air signals are measured repetitively, e.g. at regular intervals during a day to adjust for any drift of instrument performance.

Please replace 6th paragraph at page 24, lines 31-34, with the following rewritten paragraph:

In step 204 a standardization object 54 is arranged on the conveyor 10 (shown in Figure 1 and 2). The object is passed through the instrument in the same manner as an ordinary object to be measured. The steps 200, 202, 204, 206, 208, 210, 212, 218 are the same as corresponding reference numbers mentioned before regarding Figure 14.

Please replace 6th bridging paragraph at page 25, line 29 to page 26, line 6, with the following rewritten paragraph:

A presently preferred procedure for measuring a new meat sample on the slave instrument is illustrated in Figure 16 where the steps 300, 302, 304, 306, 308, 310, 312, 316

and 318 are the same as the corresponding reference numbers mentioned before regarding Figure 14. A container (Figure 4) is arranged on the conveyor 10. During the passage through the instrument the two X-ray beams pass through the meat, container bottom, conveyor belt and reach the detectors 22, 24, generating signals representing the two images shown in Figures 5, 6. Data representing the intensities I_{low} , I_{high} are stored temporarily. I_{dark} and I_{air} are measure regularly in step 312. Absorbances A_{low}^s , A_{high}^s are calculated by use of formula (1a) and (1b). For each pixel-or alternatively a small group of neighboring pixels - two matching values A_{low}^s , A_{high}^s are coordinated. So far the data treatment is the same as shown in Figure 14. According to the present invention the following treatment is applied to the raw measurements, A_{low}^s and A_{high}^s , from the slave instrument as shown in the steps listed in box 314: